

ABSTRACT

Phase stable, pumpable, liquid, high solids, aqueous monoalkanolamide surfactant emulsions are disclosed for use as cold mixable monoalkanolamide delivery systems for separately prepared aqueous formulations containing at least one principal surfactant. The monoalkanolamide surfactant emulsions comprise at least one monoalkanolamide characterized in its unemulsified form by having an amide content of at least about 85% and by being substantially solid and water insoluble at a temperature below about 30°C, and at least one monoalkanolamide emulsifying surfactant and, surprisingly, remain homogeneous, pourable, and pumpable at a total solids content of at least 20 weight percent at a temperature in the range of about zero°C to about 30°C.



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(21) International Application Number: PCT/US00/09927 (22) International Filing Date: 14 April 2000 (14.04.00) (30) Priority Data: 09/292,765 14 April 1999 (14.04.99) US (71) Applicant (for all designated States except US): MCINTYRE GROUP, LTD. [US/US]; 24601 Governors Highway, University Park, IL 60466 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): GRAY, John [GB/US]; 11120 Miami Street, Crown Point, IN 46307 (US). D'AVERSA, Eugene [US/US]; 1949 Vermont Street, Blue Island, IL 60406 (US). (74) Agents: KENNEY, Dolores, T. et al.; Olson & Hierl, Ltd., 36th Floor, 20 North Wacker Drive, Chicago, IL 60606 (US).		(81) Designated States: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>
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(57) Abstract Phase stable, pumpable, liquid, high solids, aqueous monoalkanolamide surfactant emulsions are disclosed for use as cold mixable monoalkanolamide delivery systems for separately prepared aqueous formulations containing at least one principal surfactant. The monoalkanolamide surfactant emulsions comprise at least one monoalkanolamide characterized in its unemulsified form by having an amide content of at least about 85 % and by being substantially solid and water insoluble at a temperature below about 30 °C, and at least one monoalkanolamide emulsifying surfactant and, surprisingly, remain homogeneous, pourable, and pumpable at a total solids content of at least 20 weight percent at a temperature in the range of about zero °C to about 30 °C.		